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DATE MAILED: 05/29/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 8370		
10/084,420	02/28/2002	Masakuni Ezumi	648.40349VX1			
20457	7590 05/29/2003					
ANTONELLI TERRY STOUT AND KRAUS SUITE 1800 1300 NORTH SEVENTEENTH STREET			EXAMI	EXAMINER		
			JOHNSON, JONATHAN J			
ARLINGTO	N, VA 22209		ART UNIT	PAPER NUMBER		
			1725			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)	<u>(w</u>				
Office Action Summary		10/084,420		EZUMI ET AL.					
		Examiner		Art Unit					
		Jonathan Johns	on-	1725					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)⊠									
2a)□	This action is FINAL . 2b)⊠ This action is non-final.								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.									
Disposition	on of Claims								
,—	4) Claim(s) 1-4 is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	Claim(s) is/are allowed.								
•) Claim(s) <u>1-4</u> is/are rejected.								
,	Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers 9)☐ The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)[a)⊠ All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No. <u>09/915,354</u>								
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.									
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachmen		-	1	(570 110 5	<i>(.</i>)				
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) _ 5) _ 6) _	Notice of Informal	ry (PTO-413) Paper No(Patent Application (PTO					

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 10/084,420

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawasaki (EP 0947280). With respect to Claim 1, Kawasaki teaches butting two members together, a gap being formed therebetween (Figure 1, Items 50 and 60); welding areas of the gap formed at the butted portion where the gap exceeds a first size; and performing friction stir welding along the joint line including the areas welded (Figure 1, Item 71 and abstract).

With respect to Claim 2, the teachings of Kawasaki are the same as relied upon in the rejection of Claim 1. Kawasaki teaches the welding is performed to all the joint lines to which said friction stir welding is to be performed (Figure 6, Item 42).

With respect to Claim 3, the teachings of Kawasaki are the same as relied upon in the rejection of Claim 2. Kawasaki teaches a rotary tool used for said friction stir welding comprises a smaller diameter portion to be inserted to the welding area (Figure 1, Item 72), and a larger diameter portion (Figure 1, Item 71), than the smaller diameter portion, to be positioned outside the welding area, a boundary being provided between the smaller and larger diameter

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portions; and said friction stir welding is performed with the boundary between said smaller diameter portion and said larger diameter portion being positioned within a nugget protruding from surfaces of said members formed during said welding step (Figure 1, Items 56 and 66).

With respect to Claim 4, Kawasaki teaches welding the areas of a gap exceeding a first value formed at a butted portion between an underframe and side structures or the butted portion between the side structures and a roof structure; and performing friction stir welding along the joint line including the areas welded (Figure 6, Item 42).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Johnson whose telephone number is 703-308-0667. The examiner can normally be reached on M-Th 7AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1495.

jj May 25, 2003 SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700